Liq. crystal mixt. used as matrix for f rroel ctric liq. crystal - contains 2 5-alkoxy-2-(4-alkoxyph nyl)-pyrimidine cpds.

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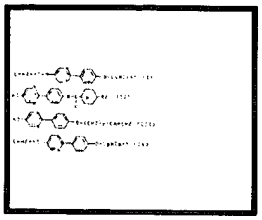


Assignee: **HOECHST AG** Standard company (FARH...)
Inventor: **DUBAL H R; DUEBAL H; ESCHER C; HEMMERLING W; MUELLER I; MULLER I; OHLENDORF D; WINGEN R;**

Accession / Update: **1989-087286 / 198912**

IPC Code: **C09K 19/34** ; G02F 1/13 ;

Derwent Classes: **E13**; **L03**; **P81**; **U11**; **V07**;

Manual Codes: **E07-D12**(Pyrimidine) , **L03-D01D2**(Liquid crystal material mixtures) , **U11-A03**(Liquid crystal, electrochromic materials) , **V07-K**(Controlling light)

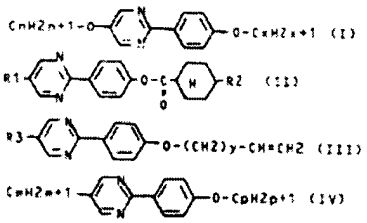
Derwent Abstract

DERWENT RECORD

(EP0307880A) Liquid crystal mixt. contains at least two 5-alkoxy-2-(4-alkoxy-phenyl)-pyrimidines, with linear alkyl gps., of formula (I), where n = 6-14; x = 2-14.
In the mixt., n is constant and pref. = 7-14; and the values of x differ by at least 2.
The mixt. pref. contains 20-90 (mole-)% (I) and pref. also 2-40% cyclohexanecarboxylate ester(s) of formula (II), 10-35% alkenyloxy-phenyl-pyrimidine deriv(s). of formula (III) and/or 10-25% alkyl-pyrimidine-alkoxy-phenyl deriv(s). of formula (IV). In the formulae R1 = 10-16C alkyl or 7-14C alkoxy; R2 = 2-9C alkyl; R3 = 7-16C alkyl or 6-14C alkoxy; y = 4-14; m and p independently = 6-14.
USE/**Advantage** - The mixts. are claimed for use as matrix for ferroelectric liquid crystal mixts., which also contain an optically active dopant and in electro-optical devices. They have favourable optical and dielectric anisotropy and a wide enough nematic phase for practical applications, esp. a low m.pt. low transition point of the lower limit of the SC phase and a much wider SC phase than that obtd. using the corresp. 5-alkyl-2-(4-alkoxy- phenyl) pyrimidine cpds.. They can give ferroelectric liquid crystal mixts. with short switching time with the phase sequence isotropic to nematic to smectic A, smectic C in which the pitch in the nematic phase is over 15 microns and in the S asterisk c phase over 5 microns, with a negative dielectric anisotropy and optical anisotropy less than 0.15.

Abstract info: EP0307880A: Dwg.0/0 , EP0307880B: Dwg.0/0 , US5071589:

Images:



Family:

Patent	Pub. Date	DW Update	Pages	Language	IPC Code
EP0307880A *	March 22, 1989	198912	22	German	C09K 19/34
Des. States: (R) AT BE CH DE FR GB IT LI NL SE					
Local appls.: EP1988000115003 ApplDate:1988-09-14 (88EP-0115003)					
DE3887048G =	Feb. 24, 1994	199409		German	C09K 19/34
Local appls.: Based on EP00307880 (EP 307880) EP1988000115003 ApplDate:1988-09-14 (88EP-0115003) DE1988003887048 ApplDate:1988-09-14 (88DE-3887048)					
EP0307880B1 =	Jan. 12, 1994	199403	25	German	C09K 19/34
Des. States: (R) AT BE CH DE FR GB IT LI NL SE					
Local appls.: EP1988000115003 ApplDate:1988-09-14 (88EP-0115003)					
US5071589 =	Dec. 10, 1991	199201	11	English	C09K 19/34
Local appls.: US1988000245408 ApplDate:1988-09-16 (88US-0245408)					

JP1096285A =	April 14, 1989	198921	English	C02F 3/00
Local appls.: JP1988000230221 ApplDate:1988-09-16 (88JP-0230221)				
NO8804137A =	April 10, 1989	198920	NO_NO	
Local appls.:				
DE3831226A =	March 30, 1989	198914	German	C09K 19/34
Local appls.: DE1988003831226 ApplDate:1988-09-14 (88DE-3831226)				

Priority Number:

Application Number	Application Date	Original Title
DE1987003731640	Sept. 19, 1987	

Citations:

EP0293910 : LIQUID CRYSTAL COMPOSITION AND LIQUID CRYSTAL DEVICE CONTAINING SAME
EP0308794 : LIQUID CRYSTAL PHENYL PYRIMIDINE ESTER OF CYCLOHEXANE-CARBOXYLIC ACID WITH A SMECTIC PHASE, PROCESS FOR ITS PREPARATION AND ITS USE IN LIQUID CRYSTAL MIXTURES
WO8604060 : PYRIMIDINES
- A3...199012
- No-SR.Pub

Related Accessions:

Accession Number	Type	Derwent Update	Derwent Title
C1989-038598	C		
N1989-066582	N		
2 items found			

Title Terms: LIQUID CRYSTAL MIXTURE MATRIX FERROELECTRIC LIQUID CRYSTAL CONTAIN ALKOXY ALKOXYPHENYL PYRIMIDINE COMPOUND

Index Terms: ALKOXYPHENYL

: Pricing Current charges